



ORDER

№ A 8

Sofia, 14.01.2026

Pursuant to Art. 10, para. 1, item 4, Art. 28, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, item 6 of the BAS QR 2 Accreditation Procedure, in connection with an open procedure reg. № 159/93 ЛИ/ПА/РО/12.06.2025, report reg. № 159/93 ЛИ/ПА/16/В/29.12.2025 and statement of the Accreditation Commission reg. № 159/93 ЛИ/ПА/РО/В/12.01.2026, I hereby

RE-ACCREDIT AND EXTEND THE SCOPE OF ACCREDITATION

of

**AGRICULTURAL UNIVERSITY – PLOVDIV
LABORATORY TESTING COMPLEX**

Management address: 4000 Plovdiv, Trakiya, 12 Mendelev Blbd.

Laboratory address: 4000 Plovdiv, Trakiya, 12 Mendelev Blbd.

To perform testing of:

Type of the scope: *flexible for part of the scope**

№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
1.	Cereal grains and grain products	1.1. Moisture	БДС ISO 711**
		1.2. Total ash	БДС EN ISO 2171
		1.3. Protein	БДС 13490
		1.4. Raw cellulose	БДС ISO 5498
2.	Oil seeds	2.1. Moisture and volatile substances	БДС EN ISO 665
		2.2. Oil content	БДС EN ISO 659
3.	Water – drinking water (1), Groundwater (2), Running surface water (3), Wastewater (4)	3.1. pH	БДС 3424 (1) БДС 17.1.4.27 (2, 3, 4)
		3.2. Electrical conductivity	БДС EN 27888 (1, 2, 3, 4)
		3.3. Suspended substances	БДС EN 872 (1, 3, 4)
		3.4. Dry residue	БДС 3546 (1)
		3.5. Total dry residue, undissolved and dissolved substances	БДС 17.1.4.04 (2, 3, 4)
		3.6. Permanganate oxidation	БДС 3413 (1)
		3.7. Ammonia	БДС ISO 7150-1 (1, 3, 4) VILM 002:2020 (Spectroquant – photometric)
		3.8. Nitrates	БДС ISO 7890-3 (1, 3) VILM 003:2020 (1, 2, 3, 4) (Spectroquant – photometric)

Type of the scope: <i>flexible for part of the scope*</i>			
№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
		3.9. Nitrites	БДС EN 26777 (1, 3, 4) VILM 004:2020 (1, 2, 3, 4) (Spectroquant – photometric)
		3.10. Total phosphorus and ortho-phosphates	БДС EN ISO 6878 (1, 2, 3, 4) VILM 005:2020 (1, 2, 3, 4) (Spectroquant – photometric)
		3.11. Chlorides	БДС 3414 (1) БДС 17.1.4.24 (2, 3, 4)
		3.12. Sulfates	БДС 3588 (1) EPA 375.4 (1, 3, 4) БДС 17.1.4.03 (2, 3, 4)
		3.13. Total hardness	БДС 3775 (1)
		3.14. Total and composite alkalinity	БДС EN ISO 9963-1 (1, 2, 3, 4)
		3.15. Chemical oxygen demand (COD).	VILM 006:2020 (4) (Spectroquant – photometric) VILM 007:2020 (4) (Spectroquant – photometric) VILM 008:2020 (4) (Spectroquant – photometric)
		3.16. Biochemical oxygen demand.	БДС EN ISO 5815-1 (4) БДС EN 1899-2 (4)
		3.17. Nitrogen Kjeldahl method	БДС EN 25663 (4)
		3.18. Oils and fats – hexane-extractable material (HEM)	EPA 1664 A (4)
		3.19. Arsenic, barium, bismuth, boron, iron, cadmium, potassium, calcium, cobalt, magnesium, manganese, copper, molybdenum, sodium, nickel, lead, phosphorus, selenium, chrome, zinc	БДС EN ISO 11885 (1, 2, 3, 4)
		3.20. Mercury	VILM 010:2020 (1, 2, 3, 4)
4.	Soils	4.1. pH	БДС EN ISO 10390
		4.2. Specific electric conductivity	БДС EN ISO 11265
		4.3. Dry matter and moisture	ISO 11465
		4.4. Organic carbon. Humus	БДС ISO 14235**
		4.5. Total nitrogen Kjeldahl method	БДС ISO 11261
		4.6. Mobile/ Absorbable nitrogen	ISO/TS 14256-1 VILM 013:2025 (titring method)
		4.7. Mobile phosphorus	БДС ISO 11263 ГОСТ 26209
		4.8. Carbonates	БДС EN ISO 10693
		4.9. Sulfates	БДС ISO 11048
		4.10. Chlorides	БДС 11301
		4.11. Oils and fats – hexane-extractable material (HEM)	EPA 9071 B
		4.12. Arsenic, barium, bismuth, boron, iron, mercury, cadmium, potassium, calcium, cobalt, magnesium, manganese,	ISO 22036

Type of the scope: flexible for part of the scope*			
№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
		copper, molybdenum, sodium, nickel, lead, selenium, phosphorus, chrome, zinc	
5.	Soil improvers and conditioners	5.1. pH	БДС EN 13037
		5.2. Electrical conductivity	БДС EN 13038
		5.3. Dry matter and moisture	БЕД EN 13040
		5.4. Organic substances	БДС EN 13039
		5.5. Ash	БДС EN 13039
		5.6. Total nitrogen	БДС EN 13654-1
		5.7. Arsenic, barium, bismuth, boron, iron, mercury, cadmium, potassium, calcium, cobalt, magnesium, manganese, copper, molybdenum, sodium, nickel, lead, phosphorus, selenium, chrome, zinc	ISO 22036
6.	Mineral fertilizers	6.1. Total nitrogen Kjeldahl method	БДС EN 15750
		6.2. Ammonia nitrogen	БДС ISO 5314
		6.3. Total nitrogen (nitrate and ammonia) Devarda method	БДС EN 15476
		6.4. Total phosphorus soluble in inorganic acids (as P ₂ O ₅)	БДС EN 15959
		6.5. Phosphorus soluble in neutral ammonium citrate (as P ₂ O ₅)	БДС EN 15959
		6.6. Water-soluble phosphorus (as P ₂ O ₅)	БДС EN 15959
		6.7. Potassium soluble in acids (as K ₂ O)	VILM 011:2025 (ICP-OES)
		6.8. Water-soluble potassium (as K ₂ O)	БДС EN 15477 VILM 012:2025 (ICP-OES)
		6.9. Total sulfur (as S and SO ₃)	БДС EN 15749
		6.10. Water-soluble sulfur (as S and SO ₃)	БДС EN 15749
		6.11. Lead, cadmium, chrome, nickel	БДС EN 16319/A1
		6.12. Arsenic	БДС EN 16317/A1
		6.13. Mercury	БДС EN 16320/A1
		6.14. Total calcium	БДС EN 16196 VILM 014:2025 (ICP-OES)
		6.15. Water-soluble calcium	БДС EN 16196
		6.16. Total magnesium	БДС EN 16198 VILM 015:2025 (ICP-OES)
		6.17. Water-soluble magnesium	БДС EN 16198
		6.18. Total forms of boron, iron, cobalt, manganese, copper, molybdenum, zinc	БДС EN 16963
		6.19. Water-soluble forms of boron, iron, cobalt, manganese, copper, molybdenum, zinc	БДС EN 16963

Type of the scope: flexible for part of the scope*			
№	Tested products	Type of test/ characteristic	Testing methods (standard/ validated method)
1	2	3	4
7.	Wastes	7.1 pH	БДС EN ISO 10390
		7.2. Electrical conductivity	БДС EN ISO 11265
		7.3. Arsenic, barium, bismuth, boron, iron, mercury, cadmium, potassium, calcium, cobalt, magnesium, manganese, copper, molybdenum, sodium, nickel, lead, phosphorus, selenium, chrome, zinc	ISO 22036
		7.4. Nitrogen Kjeldahl method	БДС EN 13342
8.	Feed - combined, protein concentrates and raw materials for them.	8.1. Moisture and volatile substances	БДС ISO 6496
		8.2. Raw protein	БДС EN ISO 5983-1
		8.3. Raw cellulose	БДС 11374, cl. 4.3
		8.4. Raw fats	БДС 11374, cl. 4.4
		8.5. Raw ash	БДС 11374, cl. 4.5
		8.6. Calcium, natrium, phosphorus, magnesium, potassium, sulfur, iron, zinc, copper, manganese, cobalt	БДС EN 15621

Note: **Repealed but not replaced standard with regard to the testing method.

Flexible scope: *The introduction of a new version of the standard/document or standards/documents, which replace them, is permitted. The laboratory keeps an updated list of the standards and their dated versions.

Fixed scope reference:

1. VILM 002/01.10.2020 Spectroquant test method for determination of ammonia content.
2. VILM 003/01.10.2020 Spectroquant test method for determination of nitrates content.
3. VILM 004/01.10.2020 Spectroquant test method for determination of nitrites content.
4. VILM 005/01.10.2020 Spectroquant test method for determination of content of total phosphorus and orthophosphates.
5. VILM 006/01.10.2020 Spectroquant test method for determination of COD content from 10 to 150 mg O₂/dm³.
6. VILM 007/01.10.2020 Spectroquant test method for determination of COD content from 25 to 1500 mg O₂/dm³.
7. VILM 008/01.10.2020 Spectroquant test method for determination of COD content from 500 to 10000 mg O₂/dm³.
8. VILM 010/01.10.2020 Determination of mercury in water by emission spectroscopy
9. VILM 011/ 27.02.2025 Mineral fertilizers. Determination of acid-soluble potassium through ICP-OES.
10. VILM 012/27.02.2025 Mineral fertilizers. Determination of water-soluble potassium through ICP-OES.
11. VILM 013/10.02.2025 Determination of ammoniacal and nitrate nitrogen in soils by distillation and subsequent titration.
12. VILM 014/27.02.2025 Mineral fertilizers. Determination of acid-soluble calcium through ICP-OES.
13. VILM 015/27.02.2025 Mineral fertilizers. Determination of acid-soluble magnesium through ICP-OES.

I ORDER

To issue the certificate of accreditation reg. № 93 ЛИ/14.01.2026, valid until 13.01.2030, and this order as an integral part of it.

The certificate of accreditation with the enclosure to be received by the rector/representative of Agricultural University - Plovdiv, the head of the Laboratory testing complex at Agricultural University - Plovdiv, or other authorized person in the office of EA BAS.

Upon receipt of the certificate and the enclosure issued, the accredited person is obliged to return to EA BAS the originals of accreditation certificate reg. № 93 ЛИ/28.05.2024 valid until 14.01.2026, and its enclosure, EA BAS order reg. № A 195/28.05.2024.

This order shall be notified to the Agricultural University - Plovdiv, within 3 (three) days from its issuance.

Eng. Mariya Ilieva - Yordanova

*Executive Director
of Executive agency Bulgarian accreditation service*

